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(71) Applicant *(for all designated States except US)*: **VESUVIUS CRUCIBLE COMPANY** [US/US]; 103 Foulk Road, Suite 32, Wilmington, DE 19803 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **DESAI, Priyadarshi, Gautam** [IN/US]; 7081 Highland Creek Road, Bridgeville, PA 15107 (US). **DEBASTIANI, Duane** [US/US]; 603 Parliament Drive, Moon, PA 15108 (US). **JANSSEN, Dominique** [CA/US]; 12 Wellington Court, McKees Rocks, PA 15136 (US).

(74) Agent: **WILLIAMS, James**; Vesuvius USA Corporation, 27 Noblestown Road, Carnegie, PA 15106 (US).

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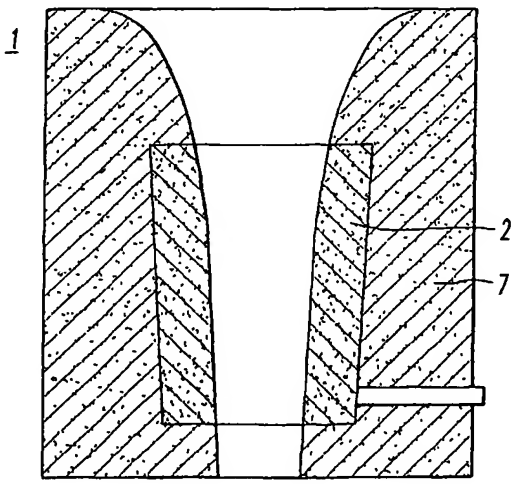
(54) Title: PERMEABLE REFRACTORY MATERIAL FOR A GAS PURGED NOZZLE



(57) Abstract: A permeable, resin-bonded composition is described, which finds utility as a porous element in a gas-injection nozzle. The permeable composition is notably useful in a canless, resin-bonded, gas-injection nozzle, characterized by an impermeable, resin-bonded composition replaces the metal can. Advantageously, the resin-bonded compositions include an oxygen getter for scrubbing oxygen before the oxygen can reach the molten steel. A method of manufacturing the nozzle is described and includes copressing a standard, resin-bonded composition around the permeable, resin-bonded composition. The pressed piece may be cured at temperatures below about 800 °C.

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